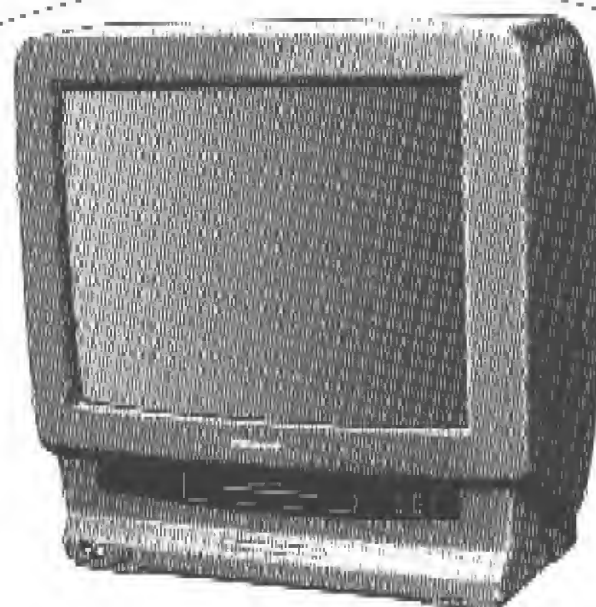


*Thank you for choosing*

# Panasonic OmniVision **VHS**



Combination VCR

**MODEL PV-M2036**

## Operating Instructions

*Before attempting to connect, operate or adjust this product and save this manual, please read these instructions completely.  
Spanish Quick Use Guide is included.  
Guía para rápida consulta en español está incluido.*

**P2 ~ P8**  
Getting Started

**P9 ~ P12**  
Basic TV Operation

**P13 ~ P15**  
Basic VCR Operation

**P16 ~ P19**  
More You Can Do

**P20 ~ 27**  
Other Information

# Things You Should Know

## Congratulations

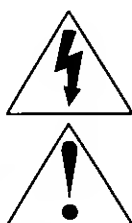
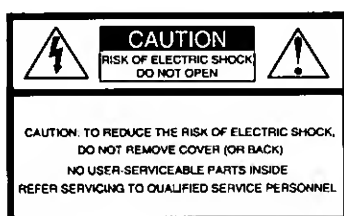
on your purchase of one of the most sophisticated and reliable products on the market today. Used properly, we're sure it will bring you and your family years of enjoyment. Please take time to fill in the information at right. The serial number is on the tag located on the back of your VCR. You'll want to keep this manual handy as your convenient VCR information source.

Date of Purchase \_\_\_\_\_  
Dealer Purchased From \_\_\_\_\_  
Dealer Address \_\_\_\_\_  
Dealer Phone No. \_\_\_\_\_  
Model No. **PV-M2036** \_\_\_\_\_  
Serial No. \_\_\_\_\_

## Safety Precautions

**Warning:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture. This video recorder, equipped with the HQ (High Quality) System, is compatible with existing VHS equipment. Only use those tapes with the **VHS** mark. It is recommended that only cassette tapes that have been tested and inspected for use in 2, 4, 6, and 8 hour VCR machines be used.

This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.



This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.

This symbol alerts the user that important literature concerning the operation and maintenance of this unit has been included. Therefore, it should be read carefully in order to avoid any problems.

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### Basic VCR Operation

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# Important Safeguards and Precautions

## INTRODUCTION

Careful attention has been given to this Video product to assure a quality standard devoted to your safety and enjoyment. This quality standard together with your personal responsibility for the safety of yourself and others, will contribute to your enjoyment. This Video product uses electrical energy and requires proper handling at all times.

## CAUTION

**READ AND RETAIN THE SAFETY AND OPERATING INSTRUCTIONS**  
To make full use of the safeguards incorporated in this unit, read and follow this basic guide, adopted in part from Underwriter's Laboratories Standard 1409, Second Edition, before operating this Video product.

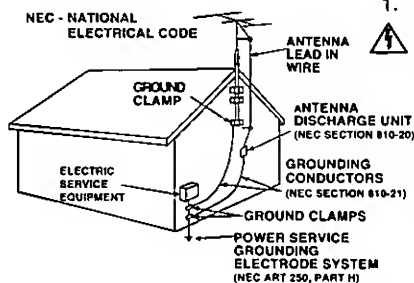
**FOLLOW THE INSTRUCTIONS AND BE SURE TO HEED ALL WARNINGS** on unit and in the manual, for easy maintenance, proper and trouble free operation of this Video product.

## INSTALLATION

1. **OPERATE FROM A POWER SOURCE INDICATED** on this Video product, or in this Manual. Your Electric Utility Service Company or Video Products Dealer will be happy to verify the power source in your home.
2. **THE GROUNDED OR POLARIZED PLUG IS A SAFETY FEATURE**  
This Video product may be equipped with either a polarized 2-wire AC line plug or a 3-wire grounding type plug. The two wire polarized plug (having one blade wider than the other) will fit into the power outlet only one way. If it is a three wire grounding type plug (having a third pin), it will fit into a grounding type outlet.  
DO NOT DEFEAT THE SAFETY PURPOSE OF THE GROUNDED OR POLARIZED PLUG by tampering with it. If the plug does not fit fully into the socket, try reversing it. If you should still be unable to fully insert the plug into the socket, you may find that a proper outlet is needed to meet today's Electrical Standards. An electrician will replace your outlet safely.
3. **POWER SUPPLY CORDS SHOULD BE PROTECTED** and routed so that they are not likely to have anything rest on them, roll over them, or be subject to walking traffic or abuse: particularly at plug-ins, convenience receptacles, or cord exit points from the unit. Where an extension is needed, use a grounded or polarized cord.  
**HAZARDOUS FRAYED CORDS OR DAMAGED PLUGS SHOULD BE REPLACED BY A QUALIFIED SERVICE TECHNICIAN.**  
**OVERLOADED WALL OUTLETS AND EXTENSION CORDS PRESENT DANGEROUS RISKS OF FIRE OR ELECTRICAL SHOCK.**
4. **AVOID BLOCKING VENTILATION HOLES**  
Your video unit has ventilation openings in its cabinet to release heat generated during operation. Blocking these opening can cause heat build-up inside the unit, causing failure that may result in a fire hazard or heat damage to cassettes. For protection:
  - a. Never cover the bottom ventilation slots or the unit with soft material, or operate the unit placed on a bed, sofa, rug, or soft accessory.
  - b. Avoid built-in installations, such as a bookcase or rack, unless proper ventilation is provided.
5. **AVOID EXTREMELY HOT LOCATIONS OR SUDDEN CHANGES IN TEMPERATURE** such as placing the unit near or over a radiator, in direct sunlight, closed vehicles, or transporting it suddenly between areas of extreme temperature variation.  
If the unit is suddenly moved from a cold place to a warm place, moisture may form on the tape and inside the unit.
6. **TO AVOID INJURY TO A CHILD, ADULT; OR COSTLY DAMAGE:**
  - a. Do not place unsecured equipment on a sloping surface or any heavy object or unit.  
(Use the unit in a horizontal position and do not place anything heavy on it.)
  - b. Support for the unit should be adequately firm, level, and strong. Replace any unstable cart, table or support. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
  - c. Carefully follow all operating instructions and use the manufacturer's recommended accessories when operating this unit or connecting it to any other equipment.



## OUTSIDE ANTENNA, EQUIPMENT, AND POWERLINE EXPOSURE



1. **INSURE SAFE ANTENNA AND CABLE CONNECTIONS**  
If an outside antenna or cable system is connected to the equipment, be sure the antenna or cable system is grounded so as to provide some protection against built up static charges and voltage surges. Part 1 of the Canadian Electrical Code, in USA Section 810 of the National Electrical Code, ANSI/NFPA

70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes and requirements for the grounding electrode.

2. **ELIMINATE ANTENNA PROXIMITY TO HIGH VOLTAGE POWER SOURCES, OR CHANCE OF ACCIDENTAL CONTACT BY INSTALLER**  
An outside antenna system should be located where it will never be reached by power lines, electric light or power circuits and where it will never contact these power sources if it falls. Installer should use extreme care to avoid possible fatal contact by touching power lines, circuits or other power sources when installing an outside antenna.

## USE

**AFTER STORING OR WHEN MOVING THE UNIT, REFER TO THE INSTALLATION SECTION OF THE SAFEGUARDS.**

1. **DO NOT USE THIS VIDEO UNIT NEAR WATER:** around bathtubs, sinks, laundry, wet basement, swimming pool or any water source.
2. **USE ACCESSORIES RECOMMENDED ONLY BY THE MANUFACTURER** to avoid risk of fire, shock or other hazards.
3. **UNPLUG ALL EQUIPMENT EXPOSED TO RAIN, MOISTURE, OR STRONG IMPACT AND GET A QUALIFIED INSPECTION**  
If your unit has been exposed to rain, water, excessive moisture, or subjected to strong impact, unplug it and have it inspected by a service technician before use.
4. **UNPLUG UNUSED UNIT, AND ALL EQUIPMENT DURING A STORM**  
During a lightning storm, when indoors or outdoors, or before leaving unit unused for extended periods of time, disconnect all equipment from power source, antenna and cable system.
5. **UNPLUG ALL EQUIPMENT BEFORE CLEANING.** After unit has been unplugged use a dry, clean, chemically untreated cloth. Use no cleaning fluids, aerosols, or forced air that could over-spray, or soak into the unit, and cause electrical shock. Any substance such as wax, adhesive tape, etc. may affect the cabinet surface. Exposure to greasy, humid, or dusty areas may affect internal parts.
6. **WHEN PLUGGED-IN: KEEP WATER AWAY; NO FINGERS INSIDE NOR ANY OBJECTS INSIDE; AND NO MAGNETS OR ELECTRICAL INTERFERENCE NEARBY.**
  - a. Never operate the unit if liquid has been spilled into it. Immediately unplug the unit, and have it inspected by a service technician. Fire and shock hazards can result from electrical shorts caused by liquid contact inside.
  - b. Caution the children about dropping or pushing objects into the unit. Some parts inside carry hazardous voltages and contact can cause electric shock. Objects dropped in electrical equipment can cause fire hazards.
  - c. Separate the unit from any interference causing appliances. Placing the unit directly above or below your TV set may cause electrical interference. Keep all magnets away from electronic equipment.

## SERVICE

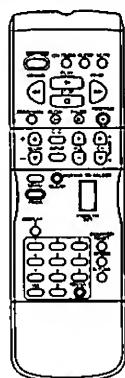
1. **DO NOT ATTEMPT TO SERVICE THIS PRODUCT YOURSELF.** If this Video product does not operate as described, when the detailed Operating Instructions are followed, do not attempt to open or remove covers, or make any adjustments not described in the manual. Attempting to service this unit yourself may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
2. **CHECK ON REPLACEMENT PARTS REQUIRED.** Be sure the service technician has used replacement parts specified by the manufacturer or having the same characteristics as the original part. Unauthorized substitutes may result in fire, electric shock or other hazards.
3. **HAVE TECHNICIAN PERFORM SAFETY CHECK** described in the manufacture's service literature, after any service or repairs, to determine that the Video unit is in safe operating order.

# Unpacking Your Combination VCR and Features

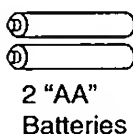
## Unpacking Your Combination VCR

The accessories shown below are provided to help you use or set up your Combination VCR. Optional accessories are also listed.

### Accessories



Remote Control  
VSQS1440



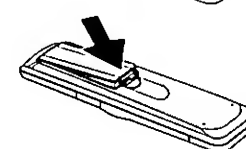
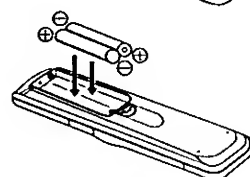
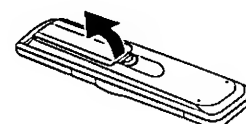
2 "AA"  
Batteries

### Optional Accessories

- 1/2" Video Cassette Tape

### Load the batteries in the Remote Control

- 1** Lift off the lid after pressing in and up on the latch with your thumb nail or other narrow object.
- 2** Install two batteries as indicated inside the Battery Compartment.
- 3** Fit the lid's hinge piece into the indent on the case, and snap lid into place.



### Battery replacement caution

- Do not mix old and new batteries. (Also, never mix alkaline with manganese batteries.)

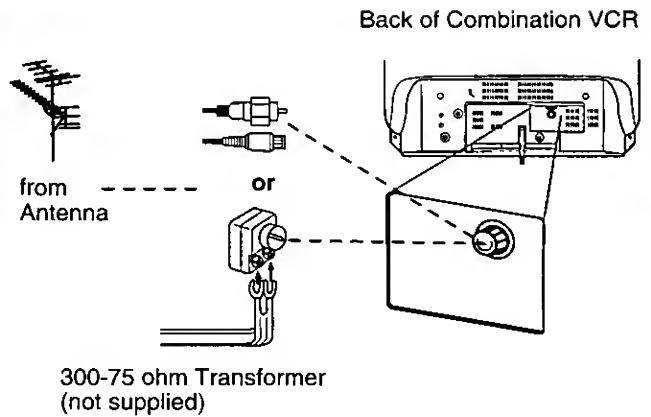
## Product Features

All Channel Auto Set/181-CH TV/CATV Tuner .....	6
Auto Clock Set.....	6, 7
Auto Daylight Saving Time .....	20
Auto Operation Functions (Auto Playback, Rewind, Tape Eject, Power Off) .....	14
Auto Repeat Function.....	14
Closed Caption System .....	12
Easy-to-Read On Screen Displays.....	6, 7, 16, 17
One Minute Skip .....	14
One Month, 8 Program Auto Timer Recording .....	16, 17
One Touch Recording (OTR) .....	15
PanaBlack™ Picture Tube .....	13
Program Director Remote Control .....	16, 17
Quick Play Mechanism .....	21
Rapid Tune .....	9
Special Effects Playback .....	13
Special VCR Features (VCR Lock, Warning Beeper) .....	18
Zero Search .....	14



## Outdoor Antenna Connection

Unhook the antenna from your previous TV or VCR and connect it to the back of the Combination VCR as shown in the diagram. If your antenna system has separate UHF and VHF lead-ins, you need a UHF/VHF Band Mixer (not supplied).



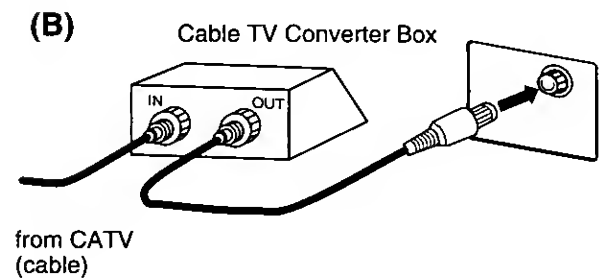
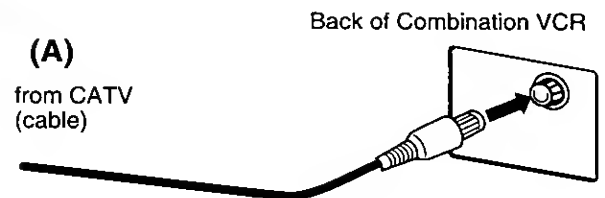
## Cable Connections

### (A) Without a Converter/Descrambler Box

With this connection, you can: use your Combination VCR remote control to select channels for viewing and select unscrambled channels for timer recording. Scrambled channels may not be viewed or recorded with this connection.

### (B) With a Converter/Descrambler Box

With this connection, you may record and view any channel including scrambled channels. Please note, however that channel selection must be made at the cable company converter box. Timer recording is limited to one channel at a time, and you can only view the channel you are recording.



## To Watch and Record Scrambled/Unscrambled Channels

Set the Combination VCR channel selector to the output channel of the cable converter box (e.g. CH3). Now, select channels to be viewed or recorded at the cable converter box.

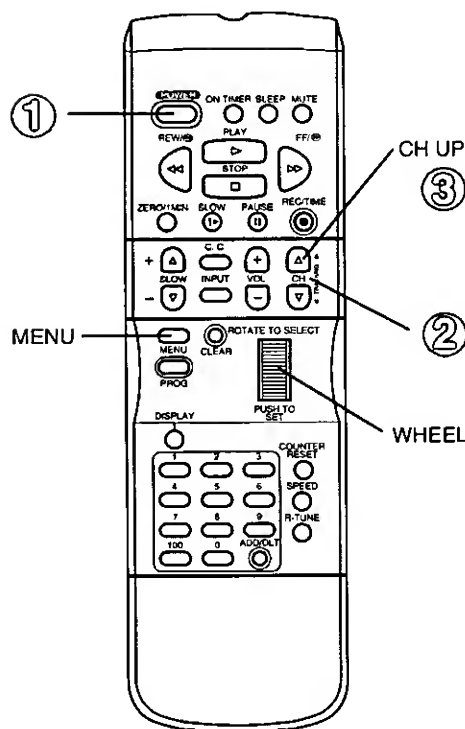
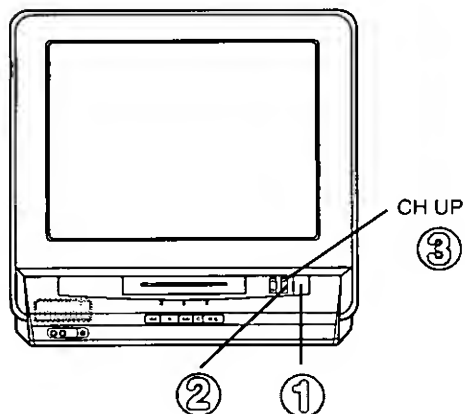


# One Time Setup



## Check list before you begin.

- ☐ Your Combination VCR is connected to an Antenna, or Cable system (see page 5).
- ☐ You've read over the Select/Set Wheel operation, below.



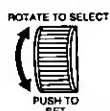
## Using the Select/Set Wheel

There are basically two types of Wheel operation.

- Selecting items from an on-screen display.
- Entering information, such as setting the clock.

### OPERATION

- ① **Rotate** (up or down)
- ② **Push** (like a button)



to make selection



to enter selection

## To Set Language, Channel and Clock

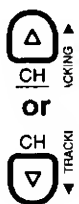
When the Combination VCR power is first turned on, the channel auto set and set clock screens appear automatically.

①



Turn the Combination VCR on.

②



Push CH UP or DOWN for on-screen displays in English or Spanish.

- If you choose the wrong language, please see the "Reset all Combination VCR Memory Functions" section on page 20.
- If you use a cable box, the cable box must be left on for auto channel set.

### SELECT LANGUAGE

PUSH CH UP : English

PULSE CH DOWN: Español

③

**Important:** If you use a cable box, turn it on and select PBS station in your time zone.



Push CH UP to start Channel Auto Set and Clock Auto Set.

### CHANNEL/CLOCK AUTO SET

CONNECT ANTENNA CABLE AND IF YOU USE A CABLE BOX, TUNE IT TO YOUR LOCAL PBS CH THEN...

PLEASE PUSH CH UP KEY

These on-screen displays will appear in sequence.

- CH AUTO SET PROCEEDING
- CH AUTO SET COMPLETED
- AUTO CLOCK SET PROCEEDING

Case 1

12/25/1996 WED 12:00PM  
DST: ON  
SETTING : CH 10  
AUTO CLOCK SET  
COMPLETED  
END : PUSH CH UP KEY

Case 2

AUTO CLOCK SET  
IS INCOMPLETE  
PUSH MENU TO SET CLOCK

④

Case 1

Confirm that displayed time is correct and push the CH UP button to exit.

**If the displayed time and D.S.T. are incorrect, please proceed as follows:**

In the rare event that you live close to two different time zones, the Combination VCR may recognize the wrong PBS station as the setting channel. In this case, please do the following:

- 1 Make a note of the SETTING:CH number shown on-screen and push the CH UP button to exit.
- 2 Delete the setting channel from the Combination VCR channel memory. (See the Add or Delete a Channel section on the next page.)
- 3 Push the MENU button to display the menu.
- 4 Use the WHEEL to select "CLOCK" and then to select "AUTO SET."

- If you use a cable box and have multiple PBS stations, tune the cable box to a different PBS station and try auto clock set again using the menu.

Case 2

If the screen above appears, auto clock set is not available in your area. Please set the clock manually as described on the next page.

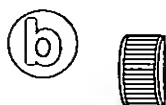
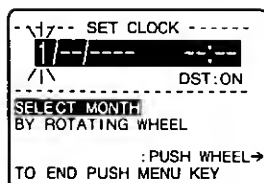


- To view the deleted channel, please select with the NUMBERED keys.
- If for any reason, the time is changed manually, automatic time correction will not occur.
- Auto clock set will be performed when the Combination VCR is turned off the first time each day. If you use a cable box and you want auto clock set to be performed, the cable box must be left on and the PBS channel is tuned at the Combination VCR power is turned off.

## Manual Clock Set



Push MENU to display the set clock screen.



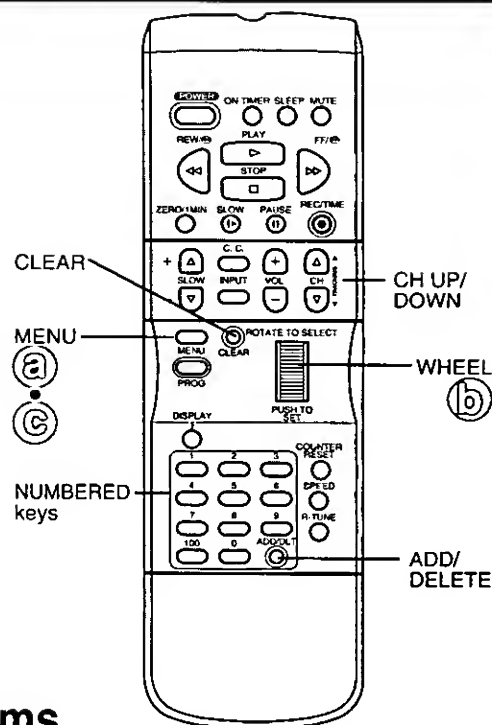
Rotate and push the WHEEL to select and enter the month, date, year, time, and D.S.T. (Daylight Saving Time).

• "DST:ON" automatically adjusts for daylight saving time. (See page 20.)

**To Make Corrections,** push the WHEEL or CLEAR button repeatedly to move back or forward to the desired item.



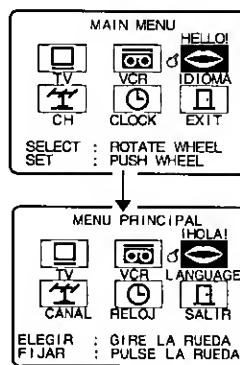
Push MENU twice to start the clock and exit this mode.



## To Change or Re-enter One Time Setup Items

### To Change the OSD Language

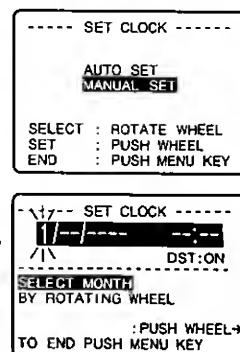
- 1 Push the MENU button to display the menu.
- 2 Rotate the Wheel to select the language selection icon.
  - "IDIOMA" is Spanish for "language."
- 3 Push the Wheel to change the language.
- 4 Push the MENU button to exit this mode.
  - To return the normal screen, select "EXIT".



### To Set or Reset the Clock

In case the clock is wrong, or a power failure occurred.

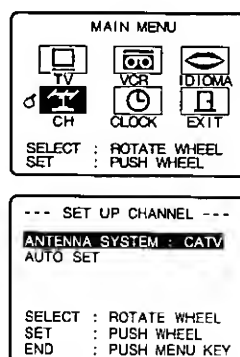
- 1 Push the MENU button to display the menu.
- 2 Rotate and push the Wheel to:
  - (A) Select CLOCK.
  - (B) Select MANUAL SET.
  - (C) Set the date, time, and D.S.T. (Daylight Saving Time).
- 3 Push the MENU button twice to start the clock and exit this mode.



### To Replace Channels in Memory

Example, if you have cable installed, etc.

- 1 Push the MENU button to display the menu.
- 2 Rotate and push the Wheel to select and set "CH" from the menu, and then push to select your antenna system (TV or CATV).
- 3 Rotate and push the Wheel to select AUTO SET.
  - To exit this mode, push the MENU button twice.

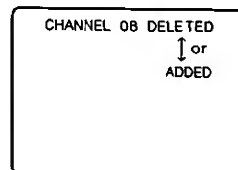


### To Add or Delete a Channel

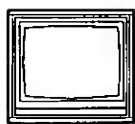
- 1 Push the CH UP/DOWN button or the NUMBERED keys to select a channel to add or delete.
 

The **NUMBERED** keys select all channels regardless of whether they have a signal or not.

The **CH UP/DOWN** button selects only those channels which are in the Combination VCR's channel memory.
- 2 Push the ADD/HLT button to add or delete the channel.
  - To select a deleted channel, use the **NUMBERED** keys.



- This Combination VCR will accurately maintain its calendar up to Dec. 31, 2089, 11:59PM.
- Normal TV or Cable channels are automatically selected and placed in memory depending on how your Combination VCR is hooked up.



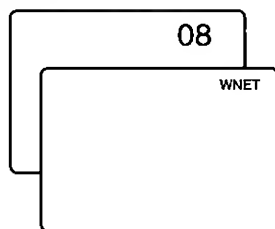
# On Screen Displays (OSD)

## Channel & Function Display

Whenever the channel is changed, the Channel number will appear for a few seconds on-screen. (Some station names may also appear.)

When a function button is pushed (PLAY, FF, etc.) the Combination VCR mode will be displayed.

- When a recording is started, both REC and the channel will appear together.



## Warning and Instruction Displays

These displays will alert you to a missed operation or provide further instructions.

If no active channels are found for CHANNEL MEMORY...

NO CH FOUND  
PLEASE CHECK ANTENNA  
CABLE CONNECTION THEN  
PUSH CH UP KEY AGAIN

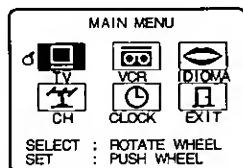
If a Timer Program was not completed before exiting the Program mode...

PROGRAM IS INCOMPLETE

## Menu Screen

1 Push the MENU button to display the menu.

2 Rotate and push the wheel to make your selection (see page 6).



- To get the most from each feature, it is recommended that you read the Operation Manual before attempting any operation.

If you push the REC button on the remote control or the REC and PLAY buttons on the Combination VCR, and a cassette is inserted with no record tab...

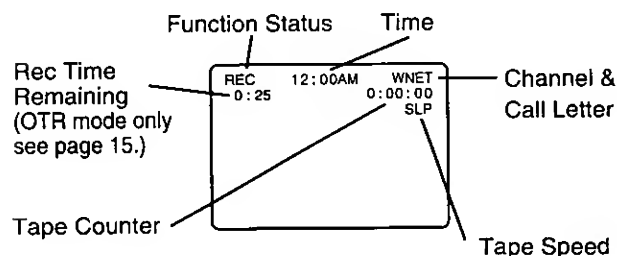
CHECK CASSETTE  
RECORD TAB

If you push the STOP button during a Timer Recording...

TO CANCEL TIMER REC  
HOLD DOWN STOP KEY  
FOR APPROX 3 SEC

## VCR Status & Clock Display

Push the DISPLAY button to display and remove the overlay shown below.



If you push the PLAY, FF, REW, or REC button on the remote control or if you push the REC and PLAY buttons, the FF, PLAY, or REW button on the Combination VCR without a cassette inserted...

NO CASSETTE  
PLEASE INSERT A CASSETTE

If you attempt to set or review a Timer Recording or set the On Timer and the Clock is not set...

PLEASE SET CLOCK  
BEFORE PROGRAMMING

## Blank Tape and will be Blue Screen

If a blank section of tape is encountered in the Play mode or the channel you select has no broadcast, the TV screen will change to a solid blue field. The screen will remain blue until a recorded signal is again detected or an active channel is selected.

Two minutes before a Timer Recording is about to begin...

PLEASE PREPARE  
FOR TIMER REC



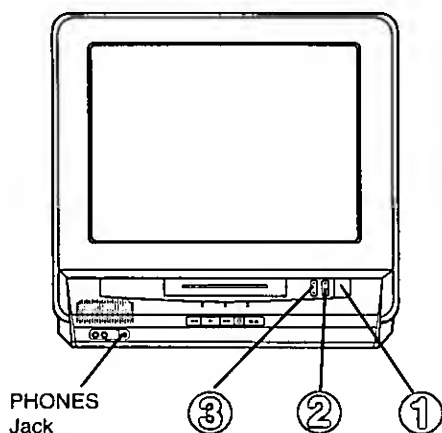


# TV Operation



## Check list before you begin

- ☐ All connections are made.  
(See page 5.)
- ☐ Your Combination VCR is plugged in.



PHONES  
Jack

①



Push POWER to turn the Combination VCR on.

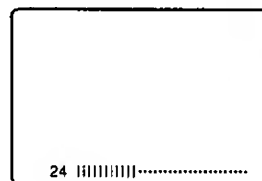
②

Select a channel using CHANNEL UP/DOWN or NUMBERED keys.

③



Push VOLUME UP/DOWN to adjust the volume level.

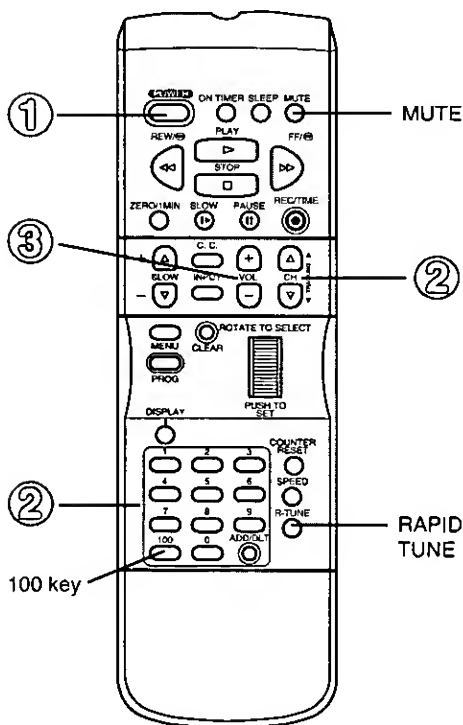


## Using the 100 key

When selecting CATV channels 100 to 125 with the NUMBERED keys, first push the 100 key and then enter the remaining two digits.

For example, for channel 125:

Push the NUMBERED keys 100-2-5.



## Rapid Tune

Push the R-TUNE button to display the last channel you were watching.

Previous channel CH08 ← Preset Channel CH10

- When selecting channels with the CH UP/DOWN button, the channels must be displayed for at least 4 seconds in order for the Combination VCR to recognize them as a new selection.

## Audio Mute

Push the MUTE button to instantly mute the sound. Push again, to restore the previous sound level.

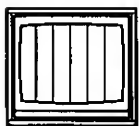
## Phones

Connect an earphone (not supplied) or headphone (not supplied) to the Phones Jack.

**FCC WARNING:** Any unauthorized changes or modifications to this equipment would void the user's authority to operate.

### Note to CATV System Installer

This reminder is provided to call the CATV (Cable TV) System Installers attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.



# Picture Adjustment



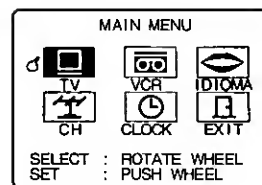
## Check list before you begin

- ☐ All connections are made.  
(see page 5.)
- ☐ Your Combination VCR is plugged in.

1



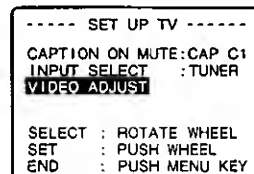
Push MENU to display the menu screen.



2



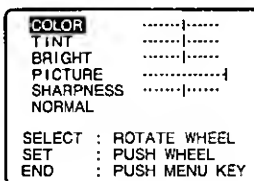
Rotate and push the WHEEL to first, select "TV" and then, to select VIDEO ADJUST.



3



Rotate and push the WHEEL to select and display the desired video adjust overlay.  
(See description below.)



4



Rotate the WHEEL to adjust and push to set the control.

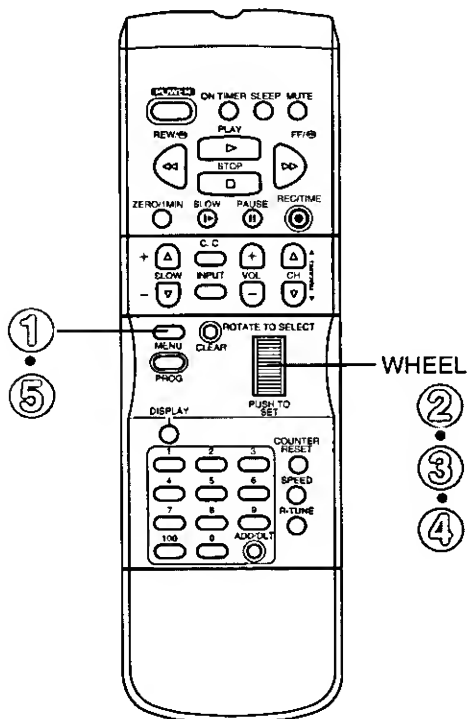
- Repeat steps 3 and 4 to adjust the picture as necessary.

5



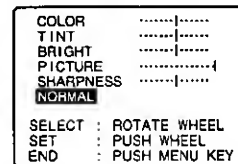
Push MENU three times to exit this mode.

- If no button is pushed within 5 minutes, the video adjust overlay disappears.
- Adjustment scale and setting indicator number are displayed to assist you.

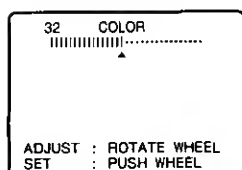


## To Reset Picture Controls to the Factory Setting

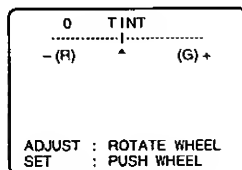
Rotate and push the WHEEL to select and set NORMAL.  
All controls return to factory settings.



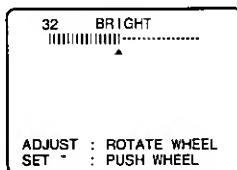
## Picture Adjust



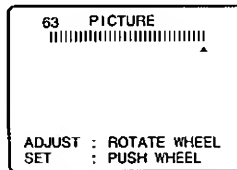
**COLOR Control**  
To adjust the intensity of the colors.



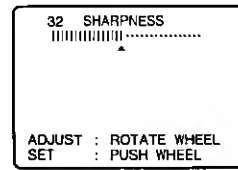
**TINT Control**  
To adjust for the most natural flesh tones.



**BRIGHT Control**  
To adjust the brightness of the picture.



**PICTURE Control**  
To adjust the intensity of the picture by adjusting contrast and color level at the same time and in the proper balance.



**SHARPNESS Control**  
To adjust the sharpness of the picture.



# TV Timer Features

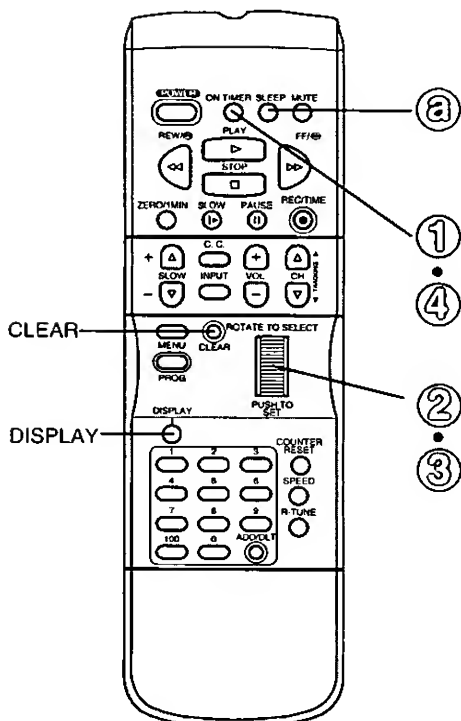


## Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



ON TIMER Indicator



## Set the On Timer

The Combination VCR can be set for auto power on.



Push ON TIMER to display the ON TIMER.

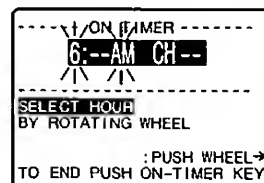


Rotate and push the WHEEL to set the ON time.



Rotate and push the WHEEL to select either a channel number for TV mode or "PLAY" for VCR Playback mode when the Combination VCR comes on.

- Make sure a tape is inserted if VCR Playback mode is selected.



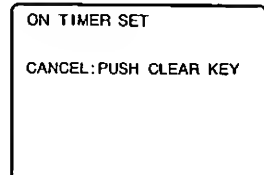
## To Make Corrections,

push the Wheel or CLEAR button repeatedly to move back or forward to the desired item.



Push ON TIMER to set On Timer function. This screen will appear for about 5 seconds.

- The ON TIMER indicator lights on the front panel.



## To Cancel,

push the CLEAR button while above screen is displayed. "ON TIMER END" will appear for about 5 seconds on-screen.



- 60 minutes after the Combination VCR turns itself on, it will turn itself back off unless any remote or Combination VCR button is pushed.

## Set the Sleep Timer

The Combination VCR can be set for auto power off.



Push SLEEP to display the desired sleep timer.

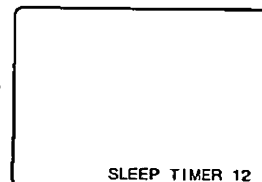
- Each push of the SLEEP button will change the overlay at right:

SLEEP TIMER 30  
↓  
SLEEP TIMER 60  
↓  
SLEEP TIMER 90  
↓  
SLEEP TIMER 00

- If you push the DISPLAY button with the SLEEP TIMER set, the remaining time will appear on-screen.

## To Cancel,

push the SLEEP button repeatedly until "SLEEP TIMER 00" appears.





# Closed Caption System



## Check list before you begin

- ☐ All connections are made.  
(See page 5.)
- ☐ Your Combination VCR is plugged in.

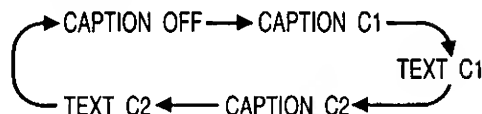
This system not only allows the hearing impaired to enjoy selected programs, but also makes valuable information from your TV stations available to you.

1



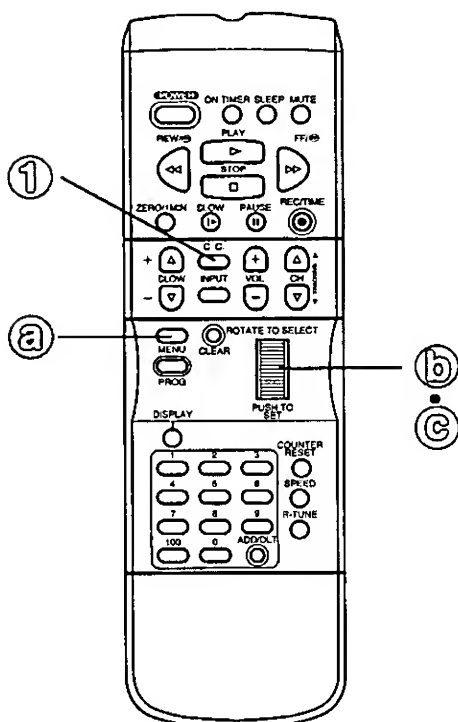
Push to select the desired caption mode (see below). Selected mode is displayed as an overlay on the screen.

Each push of the CC button will change the caption mode as follows:



## Caption On Mute Feature

This feature allows you to turn off the sound and, at the same time, display the closed caption narration. Perfect for when you need silence, but would like to continue enjoying the program.



a



Push MENU to display the menu.

b

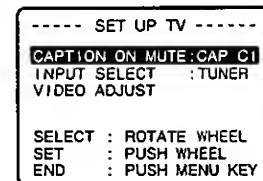
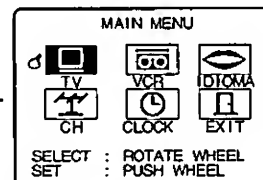


Rotate and push the WHEEL to select "TV."

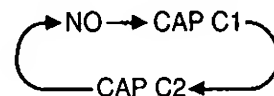
c



Push the WHEEL to select the desired caption mode.  
• Make sure "CAPTION OFF" using the C.C. button on the remote control.



Each push of the WHEEL will change the display as shown at right.



## Recording and Play Back a Closed Caption/Text Program

**Record:** Your Combination VCR will automatically record the Closed Caption/Text signal. Just follow normal recording operation.

**Playback:** To display the Closed Caption narration or Text during playback, simply follow the steps listed above right.

## Closed Caption Modes to Choose From

### Caption Mode: CAP C1 or C2

A narration of selected TV programs will be displayed on the screen. Check your TV program listings for CC (Closed Captioned) broadcasts.

### Caption Mode: TEXT C1 or C2

The lower half of the screen will be blocked out. When the TV station broadcasts text, such as program listings, special information, etc., it will appear in this space.

### Caption Mode: OFF

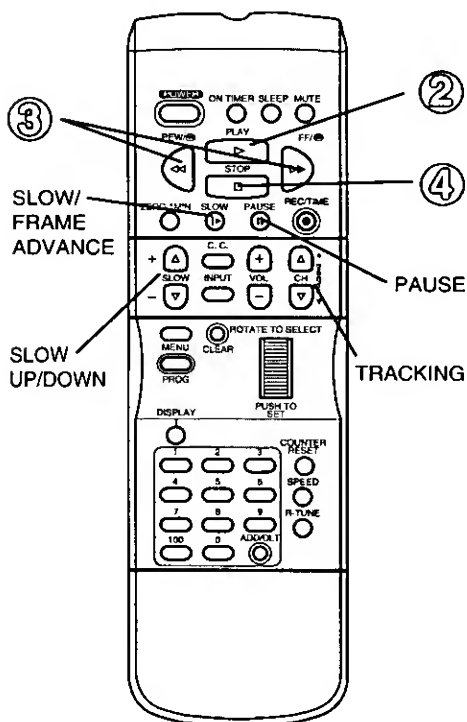
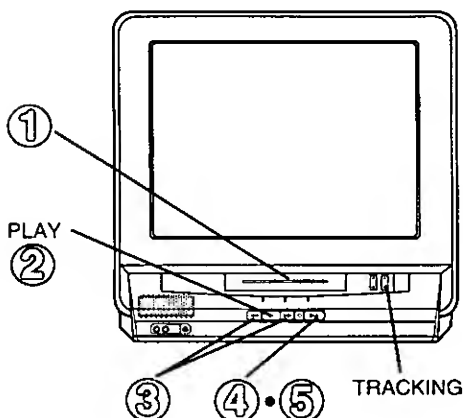
Narration will not appear on the screen even if a closed caption or text broadcast is received.

- The closed caption or text signal may be broadcast over C1, C2, or both. Also, text contents can vary so you may wish to try different settings.

# ▶ Playback a Tape

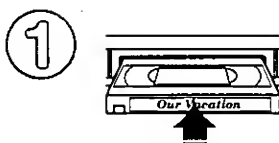
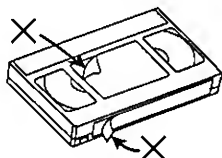
## ✓ Check list before you begin

- ☐ All connections are made.  
(See page 5.)
- ☐ Your Combination VCR is plugged in.



### Caution:

Please inspect your cassette tape for any loose or peeling labels as it may become jammed in your unit.



Insert a cassette.

- Combination VCR power comes on automatically.



Push PLAY to start playback.

- Playback begins if cassette has no record tab.

(Unit or Remote Control)



Push REW or FF to quickly locate a scene.

- SLP mode tapes 27 times the normal speed.
- Some noise bars will appear during search.

(Unit or Remote Control)



Push STOP to stop playback.

(Unit or Remote Control)



Push STOP/EJECT to eject the cassette.

- This button only on Combination VCR.

## Special Effects During Playback

These features work best in SLP mode. The sound will be muted.  
(After the Combination VCR is in the Still or Slow mode for 3 minutes, it will go into the Stop mode automatically to protect the tape and video head.)

### Slow Motion Playback

Push SLOW to start and then, push SLOW ▲/▼ to vary the tape speed. To release the Slow mode, push PLAY or SLOW.

### Still (Freeze) Frame Picture

Push PAUSE to freeze and release the picture.

### Frame by Frame Advance

While in Still mode, push repeatedly or hold down the SLOW button to advance the still picture one frame at a time. Push PAUSE or PLAY to release.

## Feature for a Quality picture

### Digital Auto Tracking

This feature continuously analyzes the signal and adjusts for optimum picture quality.

### Manual Tracking Control

Use during Playback and Slow Motion mode to reduce picture noise. Push the CH (TRACKING) ▲/▼ buttons until the picture clears up. To return to Auto Tracking, eject and re-insert the tape.

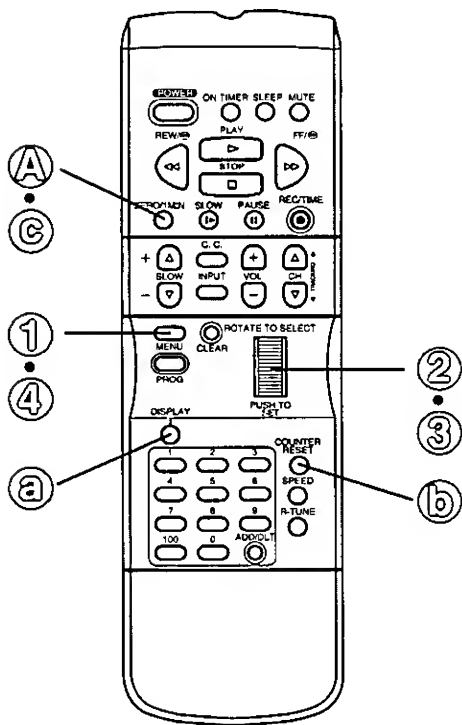
### PanaBlack™ Picture Tube

This Combination VCR uses a PanaBlack™ picture tube for better color reproduction and picture contrast.



# Tape Operation

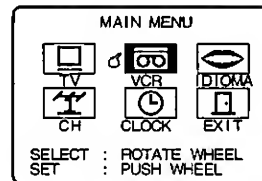
Your Combination VCR is equipped with several time saving features as well as convenient automatic functions which make tape operation easier than ever.



## Repeat Play

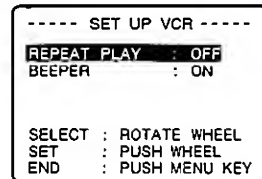
You can set your Combination VCR up to play a recording over and over.

① Push MENU to display the menu.



② Rotate and push the WHEEL to select "VCR" from the menu.

③ Rotate the WHEEL to select "REPEAT PLAY", then push to select "ON" or "OFF."



- When REPEAT PLAY : "ON" is selected, the Combination VCR will play to the end of a tape, or until it reaches a blank portion 30 seconds or more. (Erased portions of tape are not considered blank.) Then, the Combination VCR will automatically rewind the tape and play it again and again until you cancel repeat play. The REPEAT indicator lights on the front panel.
- All function buttons (REW, FF, etc.) are operational during Repeat Play.

④ Push MENU twice to exit this screen.



You may also turn the repeat play feature on and off at the Combination VCR by pushing the PLAY button once or twice until the repeat indicator lights up (ON), goes out (OFF).

## Auto Operation Functions

### Auto Playback

When a tape is inserted, the power comes on (Auto). If the record tab\* is removed, playback begins (Auto).

### Auto Rewind

After a tape reaches its end during playback or fast forward, the Combination VCR will rewind and go into Stop mode.

### Playback Auto Eject

After a tape without a record tab\* is played to its end, the Combination VCR will rewind and then eject the tape.

### Rec Auto Eject

After a tape reaches its end during normal recording, the Combination VCR will rewind and then eject the tape.

### Memory Rewind Off

When the POWER button is pushed during rewind, rewind will be completed even though the Combination VCR turns off.

### Eject Cassette

A cassette may be ejected with power on or off.

\* For record tab information, see page 20.

## One Minute Skip

With this feature, you can skip over commercials recorded on a tape.

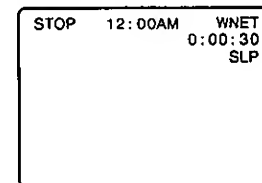
A Push ZERO/1MIN in Play mode.

- The Combination VCR will go into FF search mode and skip over 60 seconds of recorded time. Then, normal playback will resume.

## Zero Search

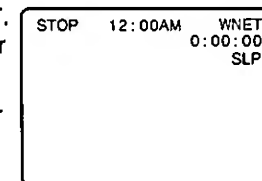
You can reset the Time Counter to zero and then return to that point.

a Push DISPLAY to display the Time Counter overlay.



b Push COUNTER RESET to reset the Time Counter.

- Counter to 0:00:00 at whatever point you wish on the tape.



c Push ZERO/1MIN in Stop mode.

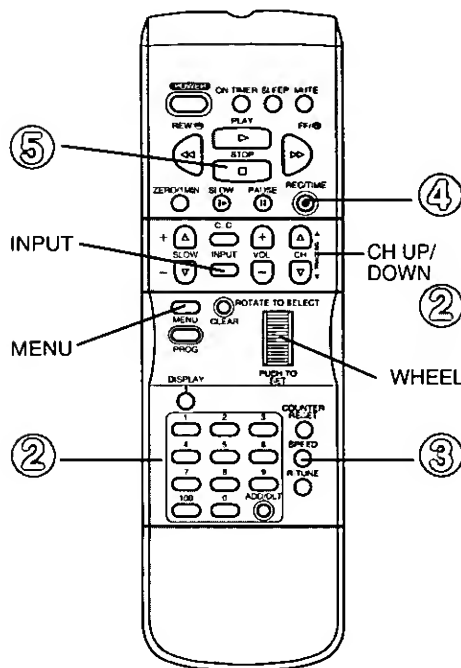
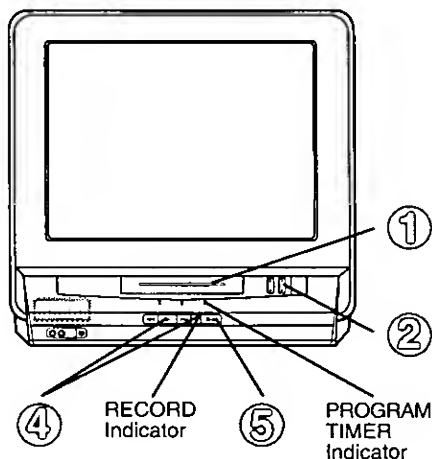
- The Combination VCR will go into FF or REW mode and stop at the last point the Time Counter was set to 0:00:00.

# Record On a Tape



## Check list before you begin.

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



## Selecting the Input Mode

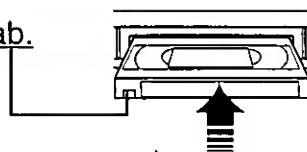
You can select the Input Mode in one of three ways.

- Push the INPUT button.  
The display will change in the order below.  
Channel Number → LINE
- Push the CH UP/DOWN button.  
The display will change in the order below.  
1 — 2 — 3  
(CATV) (CATV) (TV)  
LINE → 125 or 69
- Push the MENU button to display the menu.  
Then, use the WHEEL key to select "TV" and then "INPUT SELECT." Finally choose "TUNER" or "LINE."

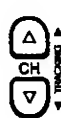
①

## Insert a cassette with record tab.

- The Combination VCR power comes on automatically.

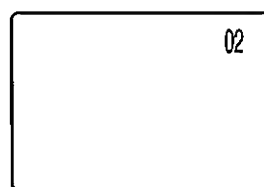


②



## Push CH UP or DOWN or NUMBERED keys to select a channel.

- Or, push the CH Up/Down button on Combination VCR.
- To record from an outside source, push the CH Up/Down to select LINE (see below).

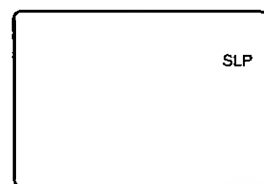


③



## Push SPEED until the desired speed appears on-screen.

- SP = Standard Play, LP = Long Play, SLP = Super Long Play.



④



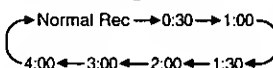
## Push REC/TIME to start recording.

- Or, push the PLAY and REC/TIME buttons on Combination VCR.

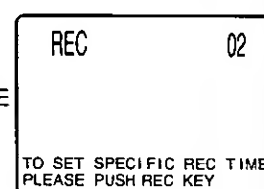
## One Touch Timer Recording (OTR)

The Combination VCR stops recording at a preset time.

Continue to push the REC/TIME button to set the recording length.  
Each Push will change the time as shown.

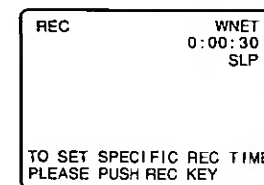


- PROGRAM TIMER indicator lights on the front panel.
- Push the PAUSE button to pause a One Touch Recording in progress.



TO SET SPECIFIC REC TIME PLEASE PUSH REC KEY

After 2 seconds



TO SET SPECIFIC REC TIME PLEASE PUSH REC KEY

⑤



## Push STOP to stop recording.

- Or, push the STOP button on Combination VCR.



- While it is possible to change the tape speed when you are recording, there will be some distortion on the tape where the change occurred.
- Push PAUSE to pause a recording in progress. (After the Combination VCR has been in Rec Pause mode for 5 minutes, it will stop automatically to protect the tape and video head.)
- The recording time remaining will appear when the DISPLAY button is pushed during OTR mode.



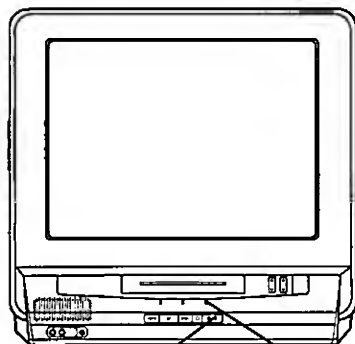
# Timer Recording

Your Combination VCR can be set up to do a recording while you are away or otherwise occupied. Up to 8 programs can be placed in memory. You can choose to record one time, daily, or weekly.



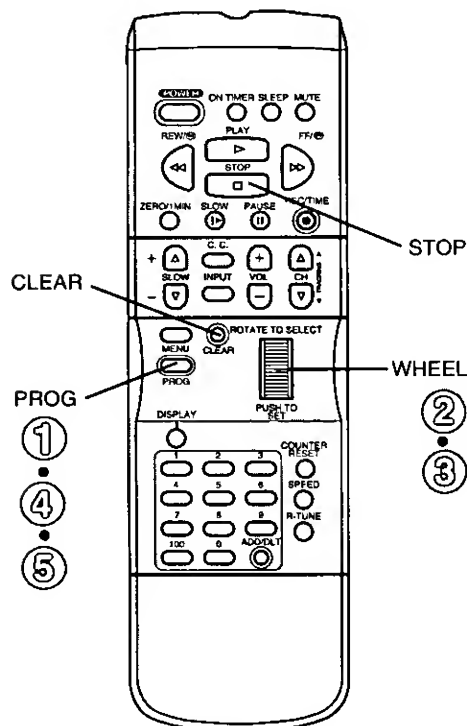
## Check list before you begin.

- ☐ All connections are made. (See page 5.)
- ☐ Your Combination VCR is plugged in.
- ☐ The clock is set.
- ☐ The tape is long enough.
- ☐ The record tab is in place.



STOP/EJECT

PROGRAM  
TIMER indicator



1



PROG

Push PROG to display the program screen.

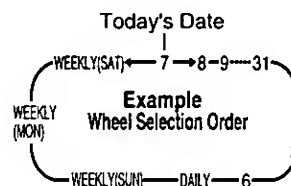
- If a program is already in memory, use the Wheel to select an unused program number.

DATE	START	STOP	CH
7 FRI	--:--	--:--	--
TODAY			SLP
SELECT START DATE BY ROTATING WHEEL			
: PUSH WHEEL → TO END PUSH PROG KEY			

2



Rotate and push the WHEEL to select and set the DATE.



## Daily and Weekly Timer Recording

If you want the program to be recorded daily (Mon thru Fri), enter DAILY in place of the DATE in step 2. If you want the recording to be on a weekly basis, enter WEEKLY MON, TUE, etc..

DATE	START	STOP	CH
DAILY	--:--	--:--	--
MON			
WEEKLY	--:--	--:--	--
SUN			SLP
SELECT START DATE BY ROTATING WHEEL			
: PUSH WHEEL → TO END PUSH PROG KEY			

3



Rotate and push the WHEEL to select and set remaining items at right.

## Remaining Items to be set:

- START time
- STOP time
- CH(annel) number, or LINE for outside source recording.
- Speed (SP, LP, SLP).

## To Make Corrections

Repeatedly push the Wheel to move forward, or the CLEAR button to move back to the desired item.

4



PROG

Push PROG to end the program.

- If you want to enter more programs, select a blank program number with Wheel and repeat steps 2 and 3.

P	DT	START	STOP	CH	SPD
1	day	9:00a	12:00a	08	SP
2	--	--:--	--:--	--	--
3	--	--:--	--:--	--	--
4	--	--:--	--:--	--	--
SELECT 1-8: ROTATE WHEEL					
ENTER : PUSH WHEEL					
CANCEL : PUSH CLEAR KEY					
END : PUSH PROG KEY					

5



PROG

Push PROG to exit this mode.

- The PROGRAM TIMER indicator lights on the front panel.

- If you're using a cable box, make sure that it is tuned to the desired channel and the power is left on for timer recording.

**Two minutes before** the Timer Recording starts, "TIMER REC WILL START SOON" will appear on-screen.



- If "PLEASE PREPARE FOR TIMER REC" appears and/or the PROGRAM TIMER indicator flashes, check that a cassette with record tab is loaded and the Combination VCR is in Stop mode.
- If the start times of two programs overlap, the lower numbered program will have priority.
- If the start time for a timer recording comes up during a normal recording or One Touch Recording (page 15), the timer recording will not be performed.
- If there is a power interruption of more than one minute, the recording may not be performed or continue.
- If "PROGRAM IS INCOMPLETE" appears on-screen in step 4, check all entries and make necessary corrections.



## Cancel a Timer Recording: Recording is in progress

Hold down the STOP button for a few seconds to cancel the Timer Recording.

- Any future daily or weekly recordings will be performed as programmed.

## Replace Program Contents: Recording is not in progress

- 1 Push the PROG button to display all currently set programs.

P	DT	STRAT	STOP	CH	SPD
1	---	---	---	---	---
2	8	10:00p	12:00a	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL  
ENTER : PUSH WHEEL  
CANCEL : PUSH CLEAR KEY  
END : PUSH PROG KEY

- 2 Rotate and push the Wheel to select and enter the desired timer recording. (See page 16.)

DATE	START	STOP	CH
8 SAT	10:00P	12:00P	125
SLP			

SELECT START DATE  
BY ROTATING WHEEL  
←PUSH CLEAR : PUSH WHEEL→  
TO END PUSH PROG KEY

- 3 Rotate and push the Wheel to select and enter replacement information.
- 4 Push the PROG button to exit this mode and return to the normal TV screen.

## Review or Clear Program Contents: Recording is not in progress

- 1 Push the PROG button to display all currently set programs.

P	DT	STRAT	STOP	CH	SPD
1	day	9:00a	12:00a	08	SP
2	8	10:00p	12:00p	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL  
ENTER : PUSH WHEEL  
CANCEL : PUSH CLEAR KEY  
END : PUSH PROG KEY

- 2 Rotate the Wheel to select the desired program number.

P	DT	STRAT	STOP	CH	SPD
1	---	---	---	---	---
2	8	10:00p	12:00p	125	SLP
3	10	8:00p	9:00p	10	SP
4	SU	9:00p	10:00p	L	SLP

SELECT 1-8: ROTATE WHEEL  
ENTER : PUSH WHEEL  
END : PUSH PROG KEY

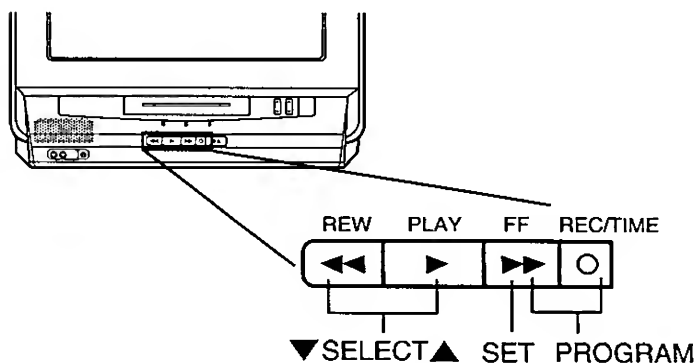
- 3 Push the CLEAR button to clear the program.

- 4 Push the PROG button to exit this mode and return to the normal TV screen.



# Timer Recording Using Unit Buttons

A timer recording can be set up using the buttons on the Combination VCR. If necessary, the clock can also be set.



- 1 Hold down REC/TIME.



and



- Push FF to enter the program mode.

DATE	START	STOP	CH
7 FRI	---	---	---
SLP			

SELECT START DATE  
BY SELECT ▲/▼ KEY  
NEXT, PUSH SET KEY OR  
TO END PUSH PROG KEY

- If the clock is not set, pushing these buttons will display the SET CLOCK screen. In this case, set the clock according to the OSD's instructions and then set a timer recording.

----- SET CLOCK -----	
AUTO SET	
MANUAL SET	
SELECT	: PUSH SELECT ▲/▼
SET	: PUSH SET KEY
END	: PUSH PROG KEY

- Once the Combination VCR is in the Program mode, the PLAY, REC, FF, and REW buttons on the Combination VCR operate only as specified above.

- 2 Push REW or PLAY to make your selection.



or



(for down) (for up)

- 3 Push FF to set and move on to the next item.



- Push SET (FF) repeatedly to move to a particular item for setting or correction.

### Items to be Set:

- recording DATE
- START time
- STOP time
- CH(annel), or LINE
- SPEED (SP, LP, SLP)

When the program is completed...

- 4 Push REC/TIME and FF to display program contents.



and



(at the same time)

To set the next program, repeat steps 2, 3, and 4 before continuing with step 5.

- 5 Push REC/TIME and FF to exit this mode.



and



(at the same time)

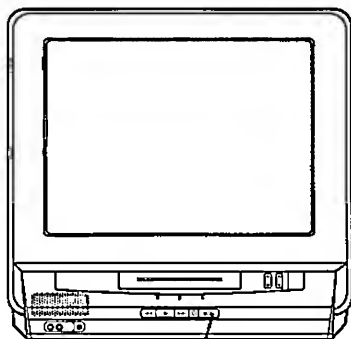
- It is not possible to clear a timer program using the Combination VCR buttons. Please use the Remote Control.

# SPECIAL Special VCR Features



## Check list before you begin

- ☐ All connections are made (see page 5).
- ☐ Your Combination VCR is plugged in.



STOP/EJECT

## VCR Lock Feature

When activated, this feature prohibits all operations except for timer recording, and tape eject. This is useful to prevent misoperation and protect your Combination VCR from curious children.

STOP/EJECT



Hold down STOP/EJECT on the Combination VCR for 7 seconds during Stop, or Power OFF mode.

VCR LOCK ACTIVATED

### To Cancel the VCR Lock feature,

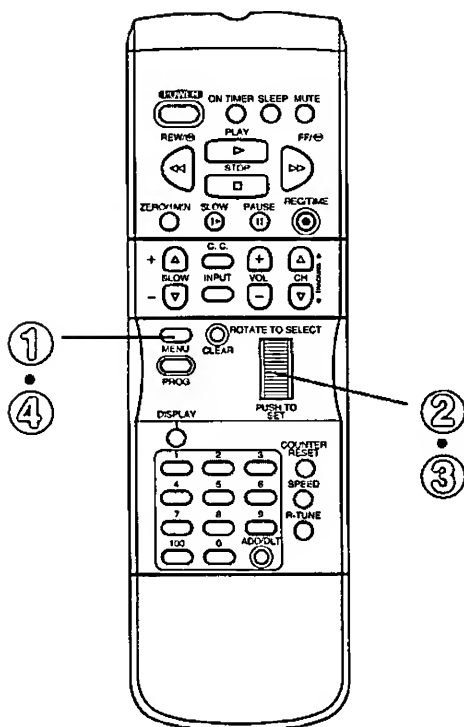
STOP/EJECT



Hold down STOP/EJECT on the Combination VCR for 7 seconds again during Stop, or Power OFF mode.

VCR LOCK OFF

- VCR Lock mode is cancelled automatically after 24 hours when the clock is set.
- This feature cannot be activated or canceled when a timer or one touch recording is in progress.



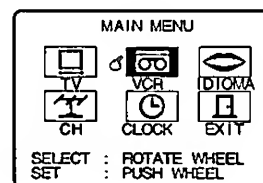
## Warning Beeper Feature

When you select BEEPER ON as described below, a short warning will sound each time an invalid entry or operation is made and a timer program is set.

1



Push MENU to display the menu.



2

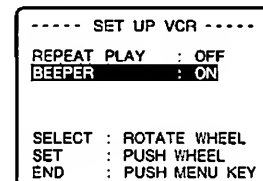


Rotate and push the WHEEL to select "VCR".

3



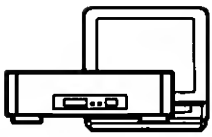
Rotate the WHEEL to select "BEEPER", then push to select "ON" or "OFF".



4



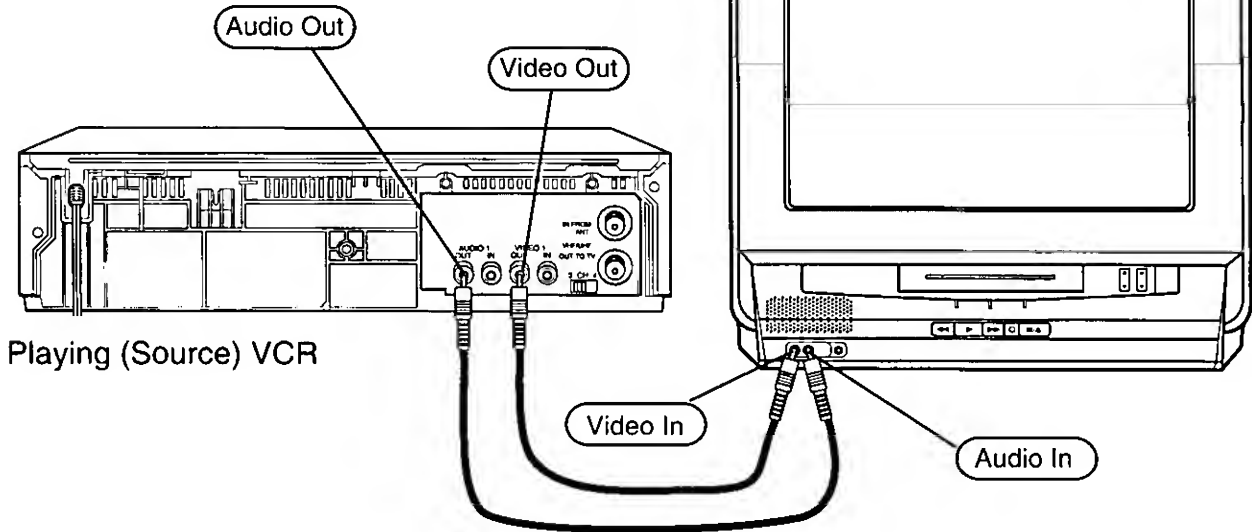
Push MENU twice to exit this screen.



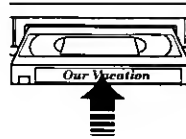
# Copying Your Tapes (Dubbing)

Connections you'll need to make.

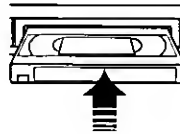
Recording (Editing)  
Combination VCR



- 1 Insert a pre-recorded tape into the Playing (source) VCR.



- 2 Insert a blank tape with record tab into the Recording (editing) Combination VCR.



- 3 Select "LINE" as the input on the Recording Combination VCR.
  - If you are using this Combination VCR as the Recording unit, see "Selecting the Input Mode" section on page 15.

- 4 Push **PLAY** on the playing VCR. Then, push **PAUSE** when the tape reaches the point you want to start copying.

- 5 Push **REC** and **PLAY** at the same time on the recording Combination VCR. Then, push **PAUSE** on the remote immediately.

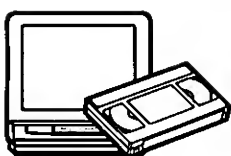
- 6 Push **PAUSE** on both units (at the same time), to begin copying.

Edit Out Unwanted Parts of the original recording by using the PAUSE button (on the Recording unit) while copying is in progress.

- 7 Then, push **STOP** on both units to stop copying.

## Caution:

Unauthorized exchanging and/or copying of copyrighted recordings may be copyright infringement.



# Unit and Cassette Information

## Erase Protection (Record Tab)

Cassettes have a record tab to ensure that recordings are not accidentally erased.

To prevent accidental erasure, break off the tab with a screwdriver.



To record again, cover the hole with cellophane tape.



## Maximum Record/Playback Time

Only use tapes with the **VHS** mark in this unit.

Tape Speed Position	Type of Video Cassette		
	T60	T120	T160
SP (Standard Play)	1 Hour	2 Hours	2 Hours 40 Minutes
LP (Long Play)	2 Hours	4 Hours	5 Hours 20 Minutes
SLP (Super Long Play)	3 Hours	6 Hours	8 Hours

## Cleaning Care for Video Heads



**Clogged Video Head Picture**

or

**Blue Back**  
(During playback of pre-recorded tape)

**Blue Back Screen**

### Clogged Video Heads

While your Combination VCR will not normally require head cleaning, however the heads may become clogged when playing an old or damaged tape. If the image on your screen resembles the illustration on the left or the screen becomes solid blue when playing back a recorded signal on the tape, the heads probably require cleaning.

### Cleaning the Heads

It is recommended that head cleaning be performed by a qualified service technician. Please contact your nearest Panasonic Service Center. An alternate solution is to obtain a head cleaning cassette. Be sure to follow the cleaning instructions carefully. Excessive use of a cleaning cassette could shorten head life. Use this cassette only when symptoms occur.

## Reset all Combination VCR Memory Functions

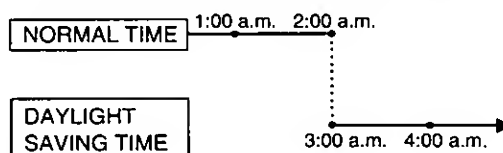
This operation is convenient when moving the Combination VCR to a new location, or if a mistake was made in the One Time Setup section. Make sure a tape is not inserted in the Combination VCR.

- 1) Push the POWER button to turn the Combination VCR on.
- 2) Push and hold both the PLAY and REWIND buttons on the Combination VCR for more than 5 seconds.
  - The power will shut off.
- 3) Perform the One Time Setup section on page 6.

## D.S.T. (Daylight Saving Time)

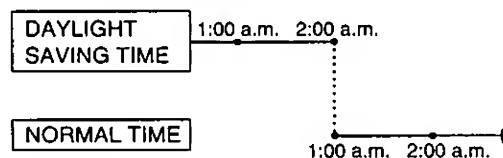
### Spring:

First Sunday in April (DAYLIGHT SAVING TIME: AUTO) Automatically adds one hour and adjusts the clock.



### Autumn:

Last Sunday in October (DAYLIGHT SAVING TIME: AUTO) Automatically turns back one hour and adjusts the clock.



## Product Specifications

### Display

Picture Tube: 20 inch measured diagonal 90° deflection Picture Tube

### VCR

Video Recording System: 2 rotary heads helical scanning system

Audio Track: 1 track

Tuner:

Broadcast Channels: VHF 2~13, UHF 14~69  
CATV Channels: Midband A through I (14~22)  
Superband J through W (23~36)  
Hyperband AA~EEE (37~64)  
Lowband A-5~A-1 (95~99)  
Special CATV channel 5A (01)  
Ultraband 65~94, 100~125

### General

Power Source: 120V AC, 60 Hz  
Power Consumption: Approx. 110 watts (Power on)  
Approx. 6 watts (Power off)

Television System: EIA Standard NTSC color

Speaker: 1 piece

Operating Temperature: 41°F~104°F(5°C~40°C)

Operating Humidity: 10%~75%

Weight: 54 lbs. (24.5 Kg)

Dimensions: 21-1/8" (W) X 21-3/16" (H)  
X 19-1/16" (D)  
536 (W) X 538 (H) X 484 (D) mm

Note: Designs and specifications are subject to change without notice.



# Before Requesting Service

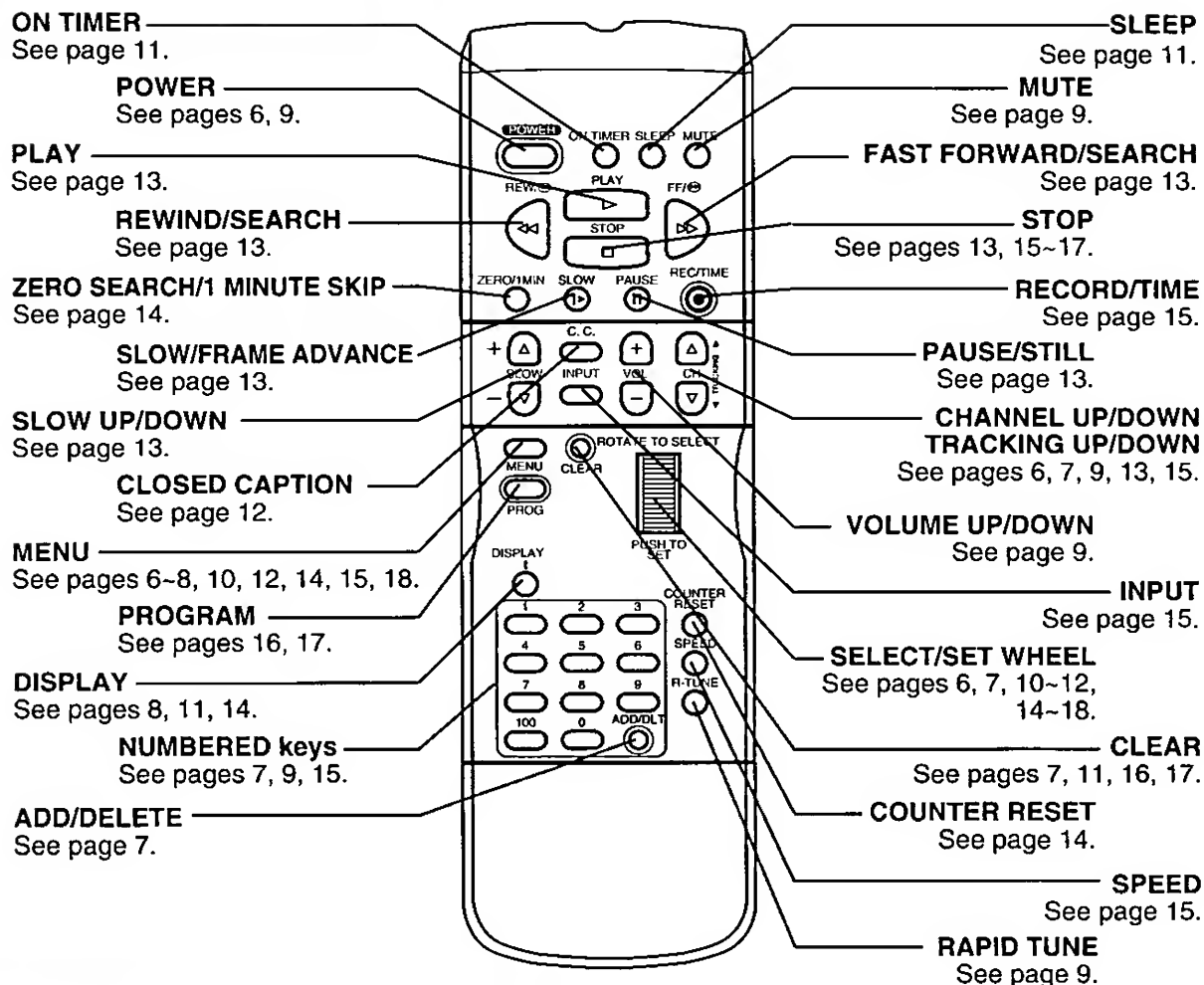
Check the following points once again if you are having some trouble with your Combination VCR.

Power	Correction
No power...	<ul style="list-style-type: none"><li>• Check that the Power Plug is completely inserted to an AC outlet.</li><li>• Check that the POWER button is set to on.</li></ul>
Monitor	Correction
No picture or sound...	<ul style="list-style-type: none"><li>• Make sure your antenna or cable system is connected to the Combination VCR. (P.5)</li><li>• Check that the power plug is completely connected to an AC outlet.</li><li>• Check that the POWER button is set to on.</li><li>• Adjust the BRIGHT, SHARPNESS, and PICTURE controls in the SET UP TV menu. (P.10)</li><li>• Adjust the VOLUME control. (P.9)</li><li>• Adjust the SHARPNESS and PICTURE controls in the SET UP TV menu. (P.10)</li><li>• Adjust the TINT and COLOR controls in the SET UP TV menu. (P.10)</li><li>• Install a directional antenna.</li><li>• Make sure that the channel being received is in the Combination VCRs memory. (P.6)</li></ul>
Poor picture with normal sound...	
Poor sound with normal picture...	
Poor TV reception...	
No color or poor color...	
Ghosts (Multiple images)... TV programs can't be watched...	
VCR	Correction
TV program can't be recorded...	<ul style="list-style-type: none"><li>• Make sure your antenna or cable system is connected to the Combination VCR. (P.5)</li><li>• Make sure that the record tab on the back of the cassette is still intact. (P.20)</li><li>• Set the recording start/stop time correctly. (P.16-17)</li><li>• Timer recording may not be performed or continued if a power interruption of more than 1 minute occurs before or during Timer Recording, even if power resumes thereafter.</li><li>• Adjust the TRACKING control slowly in either direction. (P.13)</li><li>• Make sure that VCR LOCK is set to off. (P.18)</li></ul>
Timer recording can't be performed...	
There's no playback picture or the playback picture is noisy or contains streaks... VCR can't be controlled...	
Remote Control	Correction
Combination VCR can't be remote controlled...	<ul style="list-style-type: none"><li>• Aim the Remote Control directly at the remote sensor on the Combination VCR. (Refer to Control Reference Guide.)</li><li>• Avoid all obstacles which may interfere with the signal path.</li><li>• Inspect or replace the batteries. (P.4)</li><li>• Make sure that VCR LOCK is set to off. (P.18)</li><li>• Exposing the Combination VCR remote sensor to direct fluorescent or outdoor light may cause signal interference.</li></ul>
Miscellaneous	Correction
Video cassette can't be inserted...	<ul style="list-style-type: none"><li>• Insert the cassette with the window side up and the record tab facing you.</li><li>• Check that the power plug is completely connected to an AC outlet.</li><li>• Turn the POWER off and then on, and try ejecting or inserting the tape again.</li><li>• Make sure the record tab on the back of the cassette is still intact. (P.20)</li><li>• To enable the quick play mechanism, the cylinder will rotate for about 5 minutes.</li><li>• The quick play mechanism reduces response time from Stop to Play mode and from Play to Rewind search mode.</li><li>• Make sure that VCR LOCK is set to off. (P.18)</li></ul>
Video cassette can't be removed...	
Eject does not function or insertion cannot be done...	
Video cassette ejects when the REC and PLAY buttons are pushed or when the two minutes before the Timer Recording starts...	
In the stop mode, the motor (CYLINDER) continues to rotate...	
VCR can't be controlled...	

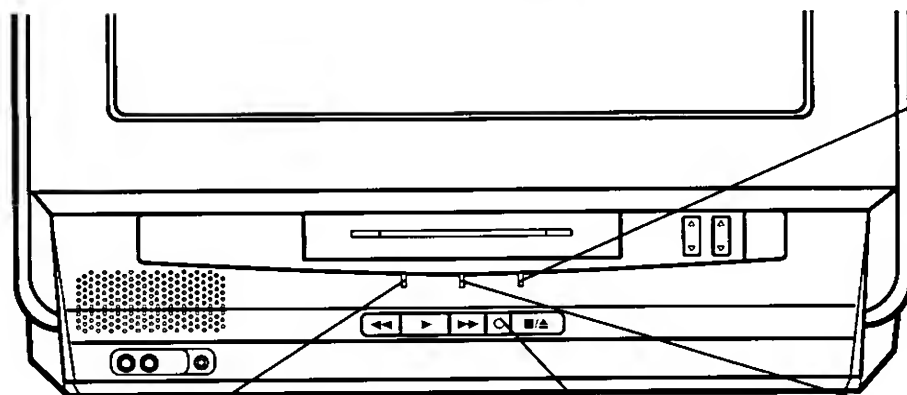


# Index of Controls

## Remote Control Button



## Indicators on the Front Panel



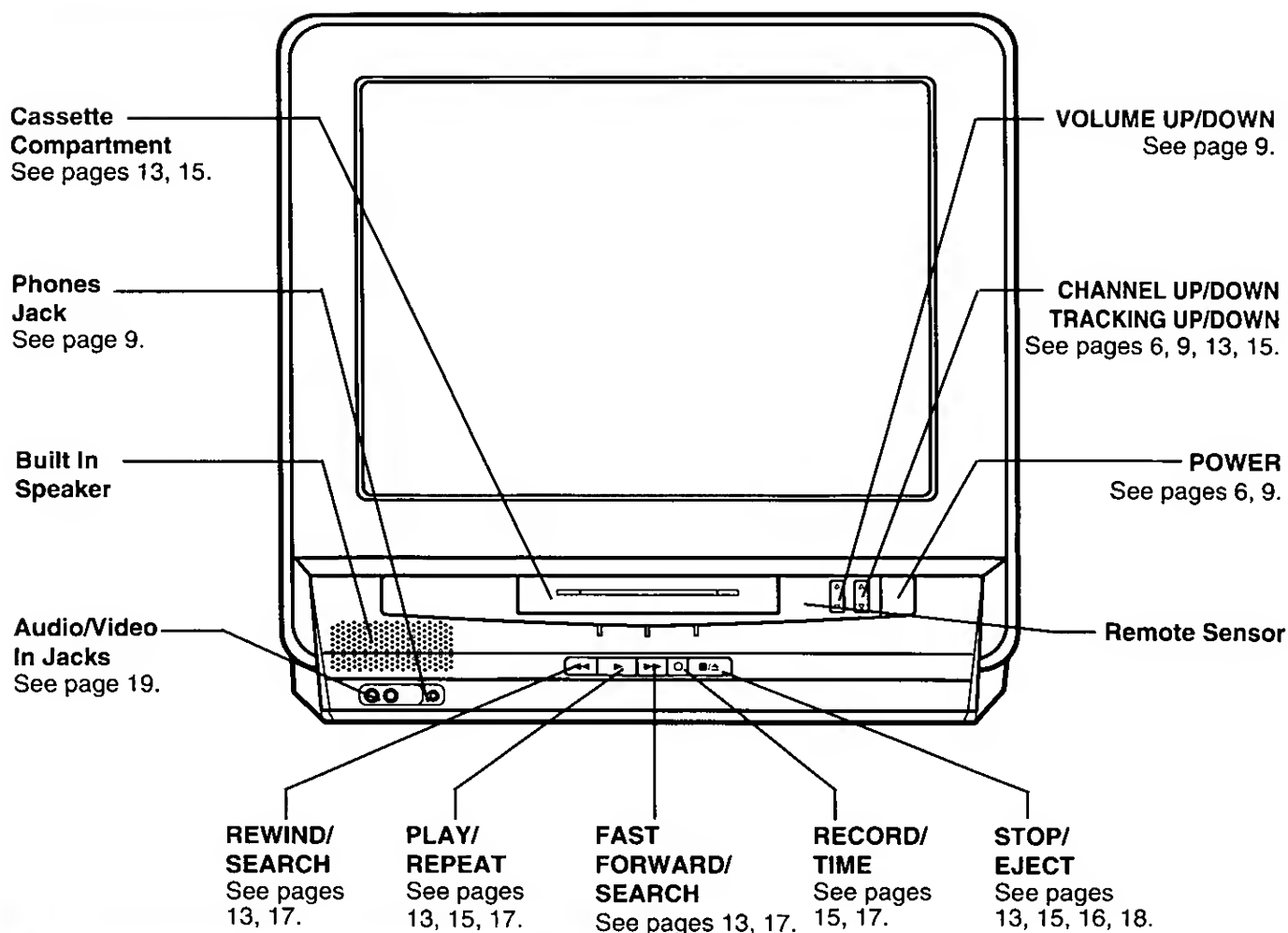
**REPEAT Indicator**  
Lights when "REPEAT PLAY: ON" is selected and playback is in progress.  
See page 14.

**RECORD Indicator**  
Lights during recording. In Rec Pause or OTR Pause mode, the indicator flashes.  
See page 15.

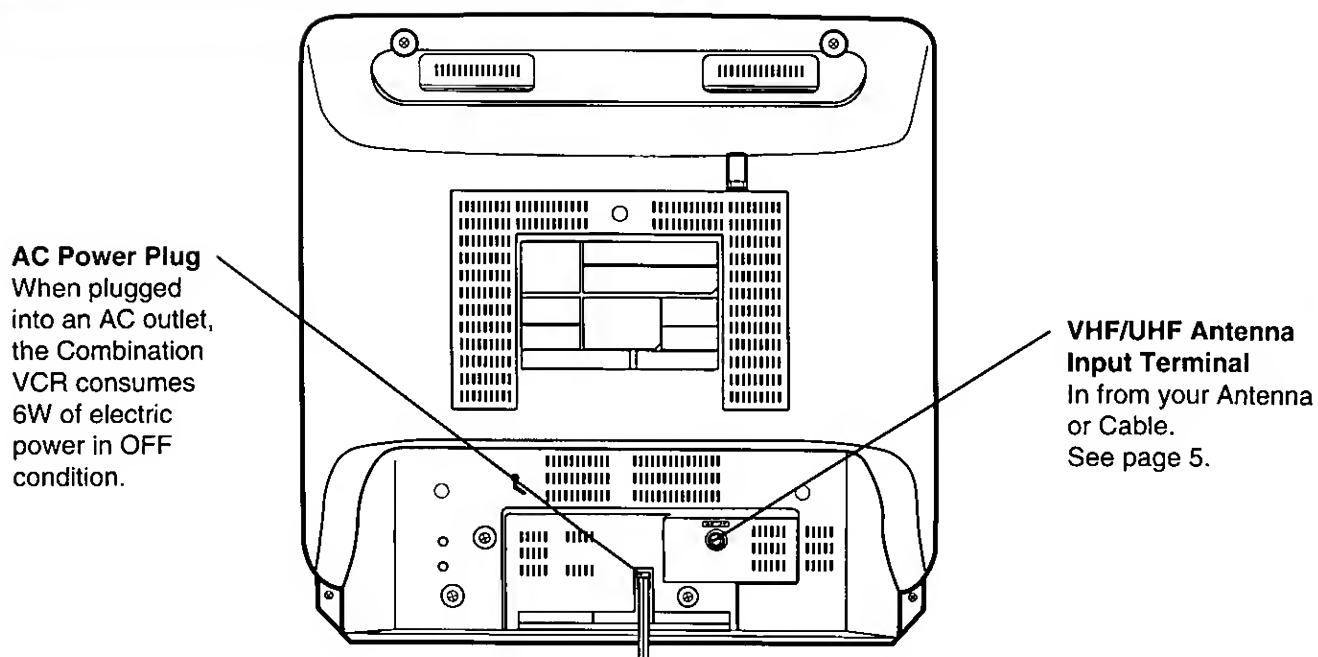
**ON TIMER Indicator**  
Lights when the On Timer is set.  
See page 11.

**PROGRAM TIMER Indicator**  
Lights when the Combination VCR is set for Timer Recording. It flashes when a Timer Recording has been set, but a tape has not been inserted, the clock is not set, or the tape is in motion.  
See pages 15, 16.

## Front View of the Combination VCR

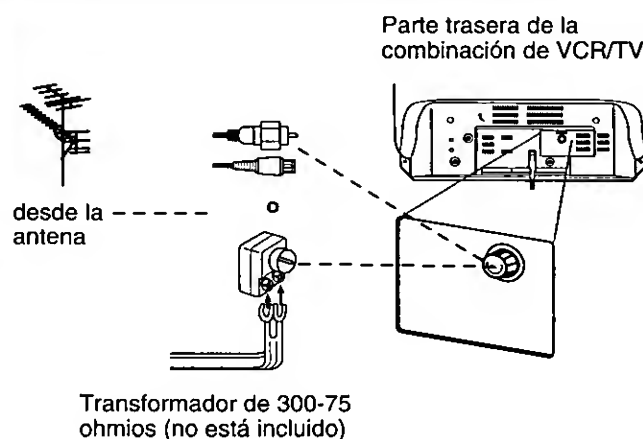


## Rear View of the Combination VCR



## Conexión de la antena externa

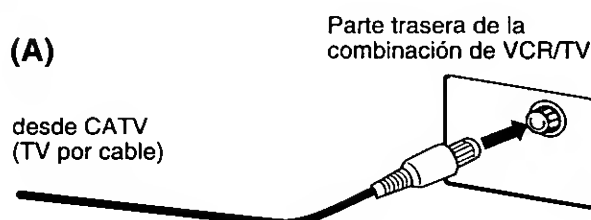
Desenganche la antena del televisor o registrador de video que tuviera anteriormente y conéctela a la parte trasera del Registrador de Video de Combinación, como se muestra en el diagrama. Si el sistema de su antena tiene conductores UHF y VHF separados, usted necesita un Mezclador de Banda UHF/VHF (no viene con el equipo).



## Conexiones de TV por cable

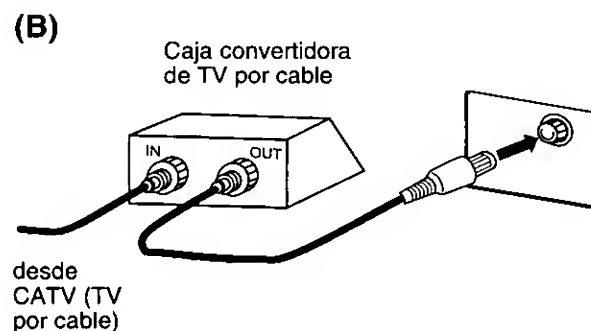
### (A) Sin la caja convertidora/decodificadora

Con esta conexión usted podrá utilizar su control remoto del Registrador de combinación de VCR/TV para seleccionar los canales que desee ver y seleccionar canales no codificados para su grabación programada. Esta conexión no permite ver ni grabar canales codificados.



### (B) Con una caja convertidora/decodificadora

Con esta conexión, usted podrá grabar y ver cualquier canal, incluyendo los canales codificados. observe, sin embargo, que la selección de canales se debe efectuar en la caja convertidora de TV por cable que suministra esta empresa. La grabación programada está limitada a un canal cada vez, y sólo se podrá ver el canal que esté grabando.




## Para ver y grabar un canales codificado/no codificado

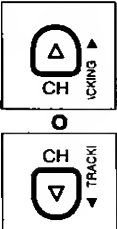
Coloque el selector de canal del Registrador de combinación de VCR/TV en el canal de salida de la caja convertidora de televisión por cable (por ejemplo el canal 3). Después, seleccione en la caja convertidora de TV por cable los canales que se quieran ver o grabar.



## Para fijar el idioma, canal y reloj

Al encender la combinación de VCR/TV por primera vez, aparecerán las pantallas para fijar automáticamente los canales y el reloj.


**1**  Encender la combinación de VCR/TV.

**2**  Oprimir CH UP o CH DOWN para elegir el idioma de la pantalla en inglés o español.

SELECT LANGUAGE

PUSH CH UP :English

PULSE CH DOWN:Español

**3**  **Importante:** Si está usando una caja de TV por cable, encienda la caja y sintonice al canal PBS de su zona.

FIJACION AUTO. (CA/RELOJ)

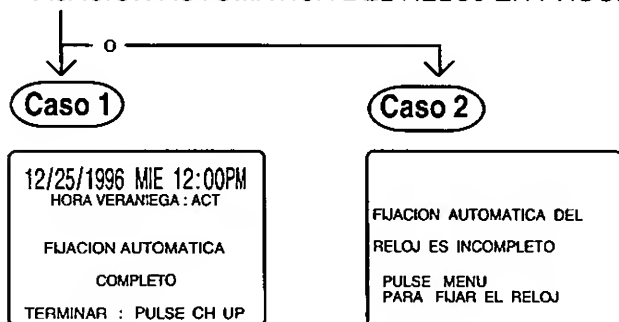
CONECTE EL CABLE DE LA ANTENA Y SI ESTA USANDO UNA CAJA DE TV POR CABLE SINTONICE AL CANAL PBS DE SU LOCAL LUEGO...

POR FAVOR OPRIMIR CH UP

Oprimir CH UP para iniciar la fijación de los canales y el reloj.

Las siguientes informaciones aparecerán seguidamente:

- AUTOPROGRAMACION EN PROCESO
- AUTOPROGRAMACION COMPLETO
- FIJACION AUTOMATICA DEL RELOJ EN PROCESO



**4** **Caso 1** Comprobar si la hora está fijada correctamente y luego oprimir CH UP para terminar la fijación.

**Si la hora y la hora veraniega es incorrecta, por favor siga los siguientes pasos:**

Raras veces, en caso de que ud. vive cerca de dos zonas con hora diferente, el aparato puede elegir un canal PBS con diferente hora de su zona. En este caso, haga los siguientes pasos:

- 1 Tome nota del canal que está fijado en la pantalla y salga desde este modo oprimiendo el botón CH UP.
- 2 Anule este canal desde los canales memorizados en la combinación de VCR/TV.
- 3 Oprima el botón MENU para que aparezca la pantalla del MENU.
- 4 Use la RUEDA para elegir "CLOCK" y luego para elegir "AUTO SET".

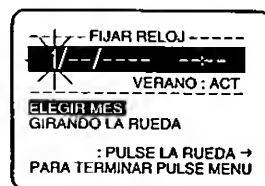
- Si ud. esta usando una caja de TV por cable y tiene muchos canales PBS, sintonice la caja de TV por cable a un canal PBS diferente e intente la fijación automática otravez.

**Caso 2** Si aparece la pantalla anterior, la fijación automática del reloj no es disponible en su zona. Por favor fije la hora del reloj manualmente como describe en la pagina siguiente.

- Para ver un canal anulado desde la memoria del aparato, por favor elija el canal con las teclas numéricas.
- Por cualquier razón, si ha cambiado la hora manualmente, no funcionará la corrección automática de la hora.
- La fijación automática del reloj efectuará cada día al apagar la combinación de VCR/TV por primera vez. Si ud. usa una caja de TV por cable y desea efectuar la fijación automática del reloj, la caja de TV por cable debe permanecer encendido y sintonizado el canal PBS cuando se apaga la combinación de VCR/TV.

## Fijación manual del reloj

- 1 Oprimir MENU para que aparezca la pantalla de la fijación del reloj.
- 2 Girar y oprimir la RUEDA para elegir y fijar el mes, la fecha, el año, la hora y la hora veraniega.

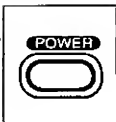


**Para hacer correcciones,** oprimir la RUEDA o el botón CLEAR repetidamente para retroceder o avanzar hasta el paso que desea corregir.

- 3 Oprimir MENU dos veces para iniciar a funcionar el reloj y salir desde este modo.

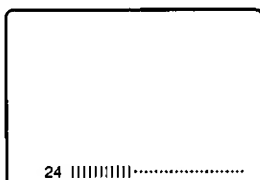
# Spanish Quick Use Guide/Guía para rápida consulta

## Operaciones para ver la TV

-  Oprimir POWER para encender la combinación de VCR/TV.


- Elegir el canal usando CHANNEL UP/DOWN o usando la teclas numéricas.

-  Oprimir VOLUME UP/DOWN para ajustar el nivel del volumen.

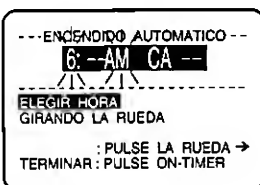


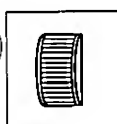
## Fijación del encendedor automático

La combinación de VCR/TV se puede fijar para que se encienda automáticamente a una hora programada..

-  Oprimir ON TIMER para que aparezca la pantalla del encendedor automático.

-  Girar y oprimir la RUEDA para fijar la hora.

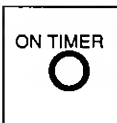


-  Para fijar el modo de TV o reproducción del encendedor automático, gire y oprima la RUEDA para elegir un canal para el modo de TV o para elegir "PLAY" para el modo de reproducción.

- Asegúrese de que una cinta de video esté introducido en la combinación de VCR/TV, si ha elegido la reproducción de la videograbadora.

### Para hacer correcciones

Oprimir la RUEDA o el botón CLEAR repetidamente para retroceder o avanzar hasta el paso que desea corregir.

-  Oprimir el botón ON TIMER para fijar la función del encendedor automático. Esta pantalla aparecerá cerca de 5 segundos.

- El indicador de ON TIMER (encendedor automático) se encenderá en el panel delantero.

ENCENDIDO AUTOMATICO  
FIJADO  
ANULAR : PULSE CLEAR

**Para cancelar,**  
oprimir el botón CLEAR cuando está mostrado la pantalla anterior.  
"ENCENDIDO AUTOMATICO ANULADO" aparecerá en la pantalla cerca de 5 segundos.

- 60 minutos luego de que la combinación de VCR/TV se ha encendido automáticamente, éste se apagará por sí mismo si no se ha oprimido ningún botón del control remoto o del aparato.

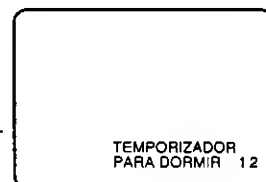
## Fijación del temporizador para dormir

La combinación de VCR/TV se puede fijar para que se apague automáticamente.

- Oprimir SLEEP para que aparezca el tiempo de fijación.

TEMPORIZADOR PARA DOMIR 30  
TEMPORIZADOR PARA DOMIR 60  
TEMPORIZADOR PARA DOMIR 90  
TEMPORIZADOR PARA DOMIR 00

- Si ud. oprime el botón DISPLAY con el temporizador para dormir fijado, aparecerá en la pantalla el tiempo que sobra para apagarse.



**Para cancelar,**  
oprimir SLEEP sucesivamente hasta que aparezca "TEMPORIZADOR PARA DORMIR 00".

## Operaciones básicas para la grabación

- 1 Introducir una cinta de video que tenga la lengüeta para evitar el borrado.

- La combinación de VCR/TV se enciende automáticamente.

- 2 Oprimir CH UP o CH DOWN para elegir el canal.

- Para grabar desde una fuente externa, oprimir CH UP/DOWN y elija LINEA.

- 3 Oprimir SPEED hasta que aparezca la velocidad deseada.

- SP = reproducción normal, LP = reproducción larga, SLP = reproducción super larga.

- 4 Oprimir el botón REC/TIME del control remoto para empezar a grabar.

- U oprimir los botones PLAY y REC/TIME de la combinación de VCR/TV.

### Grabación de un toque (OTR)

La combinación de VCR/TV se puede fijar para parar la grabación a una hora fijada anteriormente.

Oprima sucesivamente REC/TIME para fijar el tiempo de la grabación.

Cada presión cambiará la hora de parada como demuestra a continuación.

- La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.
- Oprimir el botón PAUSE para hacer una pausa en la grabación de un toque.

- 5 Oprimir STOP para parar la grabación.

## Grabación con temporizador

- 1 Oprimir PROG para que aparezca la pantalla para la programación.

- Si ya existe una programación memorizada, elija con la rueda un número sin programación.

- 2 Girar y oprimir la RUEDA para elegir y fijar la fecha.

### Grabación diaria y semanal

Si ud. desea programar una grabación diaria (lunes a viernes), elija DIARIO en vez de la fecha en el paso 2. Si desea una grabación semanal, elija SEMANAL LUN, MAR, etc.

- 3 Girar y oprimir la RUEDA para elegir y fijar las fijaciones a la derecha.

#### Fijaciones:

- Hora de inicio
- Hora de parada
- Canal o LINEA para una fuente externa
- Velocidad de la cinta (SP, LP, SLP)

### Para hacer correcciones

Oprimir repetidamente la rueda para avanzar o el botón CLEAR para retroceder hasta el paso que desea corregir.

- 4 Oprimir PROG para terminar la programación.

- Si desea hacer más programaciones, elija un número de programa en blanco con la rueda y repita los pasos 2 y 3.

- 5 Oprimir PROG para salir desde este modo.

- La luz indicador de la grabación programada (TIMER) se enciende en el panel delantero.

Dos minutos antes de empezar la grabación, "GRABACION PROGRAMADA INICIARA ENSEGUIDA" aparecerá en la pantalla.

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**Matsushita Consumer Electronics  
Company, Division of Matsushita  
Electric Corporation of America**  
One Panasonic Way Secaucus,  
New Jersey 07094

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**Panasonic Sales Company,  
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Puerto Rico, Inc. ("PSC")**  
Ave. 65 de Infanteria, Km. 9.5  
San Gabriel Industrial Park, Carolina,  
Puerto Rico 00985

